LAB REPORT FORMAT

1. Cover Page:
   Please include the following information:
   - Lab Exercise Title
   - Team Member Names
   - Lab Station
   - Lab Section

2. Prelab (Graded):
   Your Prelab assignment is due at the beginning of your lab section. It will be graded and returned during the lab period. Include your graded prelab in your lab report as an appendix. If your prelab contains many pages, it is sufficient to include only the first page of the prelab which shows the score. It is worth 10% of the lab report grade.

3. Lab Summary:
   The Lab Summary is a one or two paragraph summary of the exercise and what was learned. The Lab Summary should not detail the procedure (we already know what you did) but should instead answer questions such as: What is the purpose of the lab? What did you learn? How could the lab be improved?

4. Report Body:
   Each consecutive requirement should be addressed individually. Points are allotted per lab requirement. Be concise. Answer each question completely. Unless part of a previous requirement, information necessary to satisfy each requirement should be included as part of that requirement in logical order.

   Each step involving component wiring should be accompanied by a wiring diagram in the Appendices. The wiring diagram must be titled and referenced appropriately in the text. The wiring diagram must be your own creation, not copied from the lab assignment. It may be drawn by hand, but a straight edge must be used.

   Each step that requires programming of the Arduino board should be accompanied by source code or Simulink/Stateflow diagram, whichever is appropriate, in the Appendices. The code or diagram must be titled and referenced appropriately in the text. It may be necessary to resize these from their original dimensions in order to minimize printing.

   Charts should be scaled such that measurements can be determined accurately. Charts must be titled to reflect the content. Chart axes must be labeled. Ensure that the sampling frequency and sampling duration are appropriate. Data may be saved and imported into MATLAB for better plotting or analysis.

   Results should be tabulated where appropriate. Include a sample calculation. Label all points used for calculations on charts.

5. Conclusions:
   Briefly summarize the main results of the lab and any significant findings. No new information should be included in this section.

6. Appendices:
   These may include such items as:
   - Graded Prelab
   - Detailed calculations
   - Nontrivial MATLAB procedures (included as an ‘.m’ file)
   - Wiring diagrams (required)
   - Source code or Simulink/Stateflow diagram (required)
   - Data sheets (if necessary)